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=> s (wendel, albrecht and hartung, thomas)/au

202 WENDEL, ALBRECHT/AU

27 HARTUNG, THOMAS/AU

L1 9 (WENDEL, ALBRECHT AND HARTUNG, THOMAS)/AU

=> d ti 1-9

L1 ANSWER 1 OF 9 CA COPYRIGHT 1998 ACS

TI The usage of frozen blood for blood response tests

L1 ANSWER 2 OF 9 CA COPYRIGHT 1998 ACS

TI Granulocyte-macrophage colony-stimulating factor and IFN-.gamma. restore the systemic TNF-.alpha. response to endotoxin in lipopolysaccharide-desensitized mice

L1 ANSWER 3 OF 9 CA COPYRIGHT 1998 ACS

TI In vitro prevention and reversal of lipopolysaccharide desensitization by IFN-.gamma., IL-12, and granulocyte-macrophage colony-stimulating factor

L1 ANSWER 4 OF 9 CA COPYRIGHT 1998 ACS

TI Detection of pyrogens using human whole blood

L1 ANSWER 5 OF 9 CA COPYRIGHT 1998 ACS

TI Pyrogen test method

L1 ANSWER 6 OF 9 CA COPYRIGHT 1998 ACS

TI Endotoxin-inducible granulocyte-mediated hepatocytotoxicity requires adhesion and serine protease release

L1 ANSWER 7 OF 9 CA COPYRIGHT 1998 ACS

TI Control of fecal peritoneal infection in mice by colony-stimulating factors

L1 ANSWER 8 OF 9 CA COPYRIGHT 1998 ACS

TI Effect of granulocyte colony-stimulating factor treatment on ex vivo blood cytokine response in human volunteers

L1 ANSWER 9 OF 9 CA COPYRIGHT 1998 ACS

TI Granulocyte colony-stimulating factor treatment protects rodents against lipopolysaccharide-induced toxicity via suppression of systemic tumor necrosis factor-.alpha.

=> d 1, 4, 5 bib,ab,kw,it

L1 ANSWER 1 OF 9 CA COPYRIGHT 1998 ACS

AN 129:92589 CA

TI The usage of frozen blood for blood response tests

IN **Wendel, Albrecht; Hartung, Thomas**

PA Wendel, Albrecht, Germany; Hartung, Thomas; DPC Biermann G.m.b.H.

SO Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

PI EP 851231 A1 19980701

DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO

AI EP 97-122072 19971215

PRAI DE 96-19654266 19961223

DT Patent

LA German

AB The invention concerns the application of frozen blood or blood prepn. for testing blood response via measuring blood factors from leukocytes triggered by immunoactivators such as pyrogens. Blood prepn. are e.g. leukocytes; the frozen material contains cryopreservation substances, and blood coagulation factors. Thus citrate blood was withdrawn from healthy patients, mixed with 10% dimethylsulfoxide, 100 .mu.L aliquotes were dispensed into Eppendorf tubes and frozen to -70.degree.C. After thawing lipopolysaccharide of Salmonella abortus equi was added as pyrogen; after incubation in CO2 the tubes were centrifuged; the supernatant was used to det. IL-1.beta. in an ELISA. The amt. of IL-1.beta. was also measured when different amts. of azathioprin or dexamethason were added to the immunoactivated system.

ST frozen blood cryopreservation immunoresponse test; blood response test immunoactivation cryopreservation

IT Blood  
 Blood analysis  
 Blood preservation  
 Cryopreservation  
 ELISA (immunosorbent assay)  
 Leukocyte  
 Melting  
 Pyrogens  
 Salmonella abortus equina  
 (usage of frozen blood for blood response tests)

IT Interleukin 1.beta.  
 RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)  
 (usage of frozen blood for blood response tests)

IT Lipopolysaccharides  
 Toxins  
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
 (usage of frozen blood for blood response tests)

IT Coagulation factors (blood)  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (usage of frozen blood for blood response tests)

IT Cytokines  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (usage of frozen blood for blood response tests)

IT 50-02-2, Dexamethasone 446-86-6, Azathioprin  
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
 (usage of frozen blood for blood response tests)

IT 67-68-5, Dimethylsulfoxide, biological studies 77-92-9, Citric acid, biological studies  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (usage of frozen blood for blood response tests)

L1 ANSWER 4 OF 9 CA COPYRIGHT 1998 ACS

AN 126:203610 CA

TI Detection of pyrogens using human whole blood

AU **Hartung, Thomas; Wendel, Albrecht**

CS Biochemical Pharmacology, University of Konstanz, Germany

SO In Vitro Toxicol. (1996), 9(4), 353-359

CODEN: IVTOE4; ISSN: 0888-319X

PB Liebert  
DT Journal  
LA English  
AB Stimulation of human whole blood with various inflammogens to release endogenous pyrogens from leukocytes was used as an in vitro model for detection of compds. capable of inducing fever. When exposed to various concns. of Salmonella abortus equi endotoxin lipopolysaccharide (LPS), blood incubations released several pyrogenic factors within 24 h, including interleukin 1.beta. (IL-1.beta.). The lower limit for quantitation of LPS was 10 pg/mL, with IL-1.beta. as readout. In healthy donors, the interindividual variance of LPS-stimulated IL-1.beta. release was 23%. Not only endotoxin, but also further bacterial components such as muramyl dipeptide, various lipoteichoic acids, and the superantigen staphylococcus enterotoxin B induced a qual. similar reaction. The authors used blood from volunteers who had taken the antipyrogenic drug aspirin as a test for the reliability of this system: the ex vivo LPS-stimulated PGE2 release but not the formation of IL-1.beta. in blood from these donors was inhibited for several hours. The authors propose the evaluation of this system as an in vitro method alternative to the rabbit pyrogen test.

ST pyrogen detection blood; lipopolysaccharide pyrogen detection blood  
IT Blood  
Leukocyte  
Pyrogens  
Salmonella abortus equina  
(detection of pyrogens using human whole blood)

IT Lipopolysaccharides  
RL: ADV (Adverse effect, including toxicity); ANT (Analyte); ANST (Analytical study); BIOL (Biological study)  
(detection of pyrogens using human whole blood)

IT Endotoxins  
RL: ADV (Adverse effect, including toxicity); BPR (Biological process); BIOL (Biological study); PROC (Process)  
(detection of pyrogens using human whole blood)

IT Interleukin 1.beta.  
Interleukin 6  
Tumor necrosis factor .alpha.  
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
(detection of pyrogens using human whole blood)

IT 363-24-6, PGE2  
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
(detection of pyrogens using human whole blood)

L1 ANSWER 5 OF 9 CA COPYRIGHT 1998 ACS  
AN 126:2952 CA  
TI Pyrogen test method  
IN **Wendel, Albrecht; Hartung, Thomas**  
PA DPC Biermann GmbH, Germany  
SO Eur. Pat. Appl., 8 pp.  
CODEN: EPXXDW  
PI EP 741294 A2 19961106  
DS R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE  
AI EP 96-106443 19960424  
PRAI DE 95-19516247 19950503  
DT Patent  
LA German

AB For examg. substances for pyrogenic activity, whole blood-contg. preps. are brought into contact with the substances to be tested, and then the preps. are examd. for the formation of endogenous pyrogens. The preps. can contain, e.g., coagulation inhibitors as well as diluents such as cell culture media or physiol. saline soln. Examples are given for tests that measure the formation of the endogenous pyrogens interleukin-1, interleukin-6, tumor necrosis factor, or PGE2, and a time course is shown for the lipopolysaccharide-induced formation of these endogenous pyrogens in whole blood.

ST pyrogen test whole blood; endotoxin pyrogen test whole blood; interleukin formation pyrogen test whole blood; PGE2 formation pyrogen test whole blood; tumor necrosis factor formation pyrogen test

IT Enterotoxins  
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
(A; pyrogen test method using whole blood preps.)

IT Enterotoxins  
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
(B; pyrogen test method using whole blood preps.)

IT Tissue culture (animal)  
(culture media; pyrogen test method using whole blood preps.)

IT Blood  
Gram-negative bacteria  
Gram-positive bacteria (Firmicutes)  
Immunostimulants  
Pyrogens  
Staphylococcus aureus  
(pyrogen test method using whole blood preps.)

IT Endotoxins  
Hemolysins O  
Lipopolysaccharides  
Phytohemagglutinins  
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
(pyrogen test method using whole blood preps.)

IT Interleukin 1  
RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)  
(pyrogen test method using whole blood preps.)

IT Interleukin 6  
RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)  
(pyrogen test method using whole blood preps.)

IT Tumor necrosis factors  
RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)  
(pyrogen test method using whole blood preps.)

IT 9041-38-7D, Teichoic acid, lipo- 16561-29-8, PMA 53678-77-6, Muramyl dipeptide  
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
(pyrogen test method using whole blood preps.)

IT 50-78-2, Aspirin  
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(pyrogen test method using whole blood preps.)

IT 77-92-9, Citric acid, biological studies 9005-49-6, Heparin,

biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

(pyrogen test method using whole blood preps.)

IT 363-24-6, Prostaglandin E2

RL: MFM (Metabolic formation); BIOL (Biological study); FORM

(Formation, nonpreparative)

(pyrogen test method using whole blood preps.)

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